

JAPANESE MEDICAL MATERIAL

LABORATORY, VETERINARY, FIELD, TYPE 1938

indoor

290402

Medical No. 197

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MEDICAL ANALYSIS SECTION  
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Laboratory, Veterinary, Field, Type 1938

SOURCE: Veterinary Department Headquarters Depot, Tachikawa, Japan.

IMPORTANCE: Not previously reported.

DESCRIPTION: This laboratory set consists of 17 wooden chests, strongly reinforced with metal on the edges and corners. Chests No. 2 thru No. 15 are 29" x 20 1/2" x 18 1/2", chest No. 16 is 27 1/2" x 19" x 18" and chest No. 17 is 27" x 26 1/2" x 25". Chest No. 1 is 28" x 14 1/2" x 18 1/2". The weight of each chest when fully packed is included in the inventory.

Chests No. 1 and No. 16 have one leather drop handle on each end while all the other chests have two on each end.

The chests are all painted dark green with a light natural varnish inside. On the outside of each chest are painted Japanese characters giving the name of the set and the chest number plus the veterinary insignia.

The insides of the chests are divided by trays, specially constructed to contain each specific item.

An inventory of all items in each chest is included in this report. All 17 chests and inventories of their contents were available. Many of the pieces of equipment, however, are missing.

COMMENT: Literally translated, this veterinary field laboratory is called "Epidemic Prevention Veterinary Chests.". It is issued complete to a veterinary field laboratory unit located in the



corps or army area. In addition, two or three smaller sets consisting of chests 1 thru 10 are issued to this unit for branch laboratories working nearer the front lines, usually with divisions.

This set is completely equipped for all types of clinical bacteriological, histological, haematological, urinological and water analysis. However, the equipment from the American standpoint lacks precision even for field use. It can be rather easily disassembled and packed but is intended for a semi-permanent installation. All types of commonly used laboratory supplies and equipment are included, and from this standpoint the set is satisfactory for large scale control of epidemic animal diseases.

It is interesting to note that the quality of this equipment is superior to similar sets issued to the Japanese Army Medical Department.

- Photograph:
- Fig. 1 - Laboratory set complete as transported, fully packed.
  - Fig. 2 - Large incubator from chest No. 17.
  - Fig. 3 - Combination distillation apparatus and steam sterilizer from chest No. 5.
  - Fig. 4 - Constant temperature bath from chest No. 16.
  - Fig. 5 - Microtome and accessories from Chest No. 13.
  - Fig. 6 - Microtome - close-up.
  - Fig. 7 - Electric paraffin heater and centrifuge from chest No. 14.



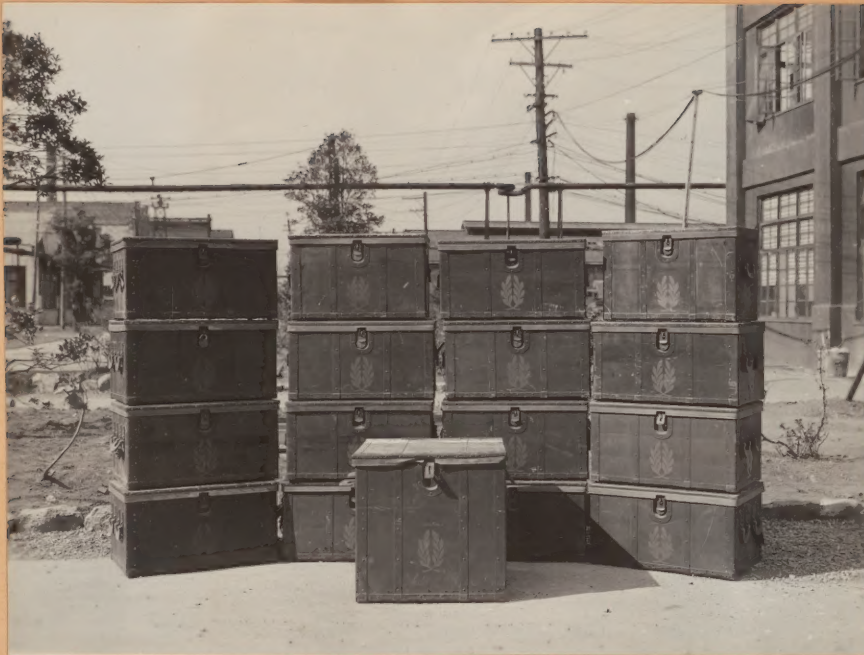


Fig. 1 - Laboratory set complete as transported, fully packed.



Fig. 2 - Large incubator from chest No. 17.





Fig. 3 - Combination distillation apparatus  
and steam sterilizer from chest #5.

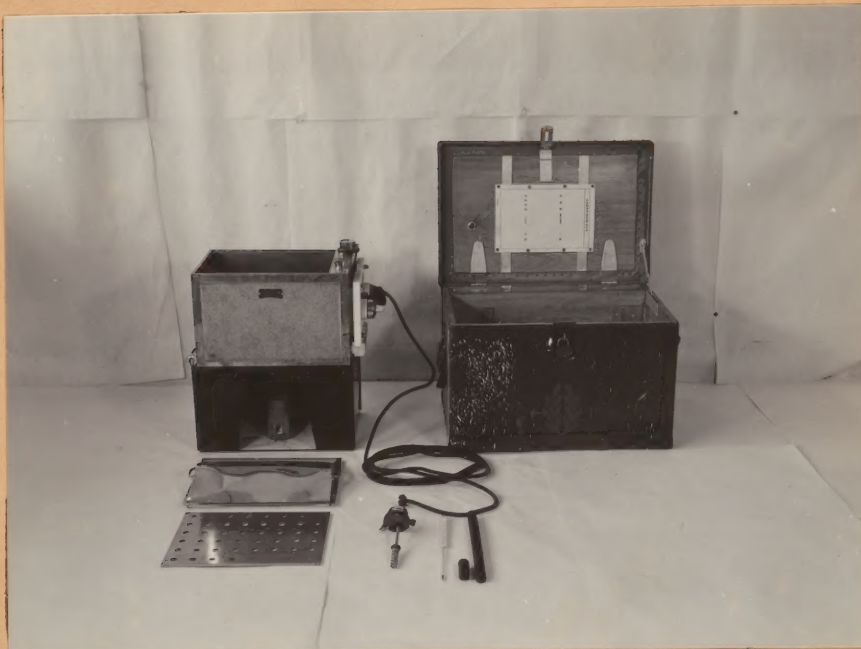


Fig. 4 - Constant temperature bath from chest  
No. 16.

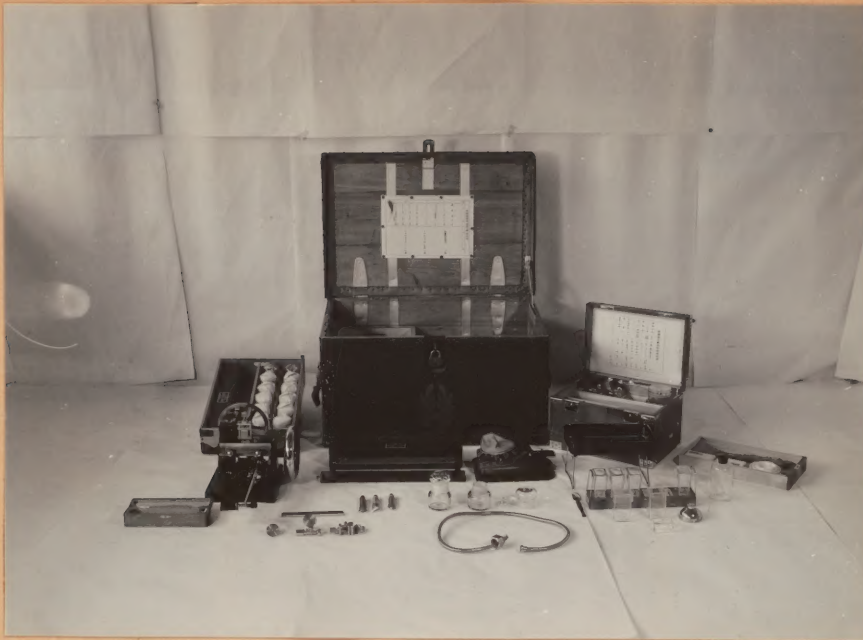


Fig. 5 - Microtome and accessories from Chest No. 13.



Fig. 7 - Microtome - close-up.





Fig. 7 - Electric paraffin heater and centrifuge from chest No. 14.



Inventory of  
Laboratory, Veterinary, Field, Type 1938

Chest No. 1 - Weight 92 pounds

1. Potassium hydroxide	gm	25
2. Solution, Giemsa	gm	25
3. Sodium citrate	gm	25
4. Strychnine nitrate	gm	25
5. Solution, anthrax diagnostic	gm	4
6. Cedar oil	gm	25
7. Mallein, for glanders diagnosis	gm	100
8. Asbestos	gm	50
9. Gauze, package of 5 meters	ea	2
10. Cotton, absorbent, package of 200 gm	ea	1
11. Hair shears, small	ea	1
12. Scissors, surgical, curved, small	ea	1
13. Knife, surgical, straight blade	ea	1
14. Forceps, Cornet's	ea	3
15. Gloves, rubber, thin	pr	3
16. Needles, phlebotomy with rubber tube	ea	50
17. Scissors, for miscellaneous use	ea	1
18. Alcohol fixative	ea	5
19. Lamp, alcohol	ea	1
20. Forceps, large, mouse-tooth	ea	1
21. Inventory book of contents	ea	1
22. Platinum holders	ea	5
23. Cork screw	ea	1
24. File	ea	1
25. Screw borer	ea	1
26. Platinum wire, diameter 0.5 mm	mm	660
27. Funnel, tubular	ea	1
28. Mortar, hard glass, small	ea	1
29. Test tube, with rubber plug	ea	15
30. Dishes, diameter 90 mm, 75 mm, 60 mm	set	3
31. Syringe, 1 cc	ea	1
32. Syringe, 1 cc, with asbestos sucker and joint ring	set	1
33. Slide, microscope	ea	50
34. Test tube, diameter 46 mm	ea	10
35. Eye dropper	ea	10
36. Cover glass	ea	100
37. Tube, capillary, glass	ea	5
38. Flashlight	ea	2
39. Boil sterilizer, small	set	1
40. Gown, operation	ea	2
41. Thermometer, physical	ea	20
42. Thermometer holder	ea	20
43. Instrument, anthrax diagnosing	set	1
44. Mirror, reflecting	ea	1
45. Syringe, 50 cc	ea	1



46.	Second watch	ea	1
47.	Candle for flashlight	ea	2
48.	Liquid measurer, 200 cc and 100 cc	ea	1
49.	Microscope	set	1
50.	Accessories for microscope	set	1
51.	Bottle, hard glass, 250 cc	ea	6
52.	Funnel, glass, diameter 54 mm	ea	1
53.	Methyl alcohol	gm	500

Chest No. 2 - Weight 102 pounds

1.	Lamp, alcohol, metal, round	set	1
2.	Cantary	ea	1
3.	Bacteria, glanders	gm	100
4.	Flasks, triangular, 250 cc	ea	2
5.	Test tube stand, with narrow bottom	ea	2
6.	Accessories for incubator	set	1
7.	Antigen, glanders	gm	1
8.	Serum, hemolysin	gm	10
9.	Centrifuge, hand, with 2 tubes	set	1
10.	Cork screw	ea	1
11.	Tube, sedimentation test	ea	8
12.	Incubator, portable, with kerosene lamp	set	1
13.	Test tube stand, 144 tube capacity	set	2

Chest No. 3 - Weight 84 pounds

1.	Pipettes, 2 cc, with sucker, Komagome shape	ea	5
2.	Pipettes, 1 cc, Maul shape	ea	3
3.	Pipette, serological, 10 cc, Mohr shape	ea	5
4.	Pipettes, serological, 1 cc,	ea	50
5.	Pipettes, serological, 0.1 cc	ea	5
6.	Loupe	ea	1
7.	Tube, rubber, diameter 9 mm, accessory to irrigator	gm	120
8.	Plug, rubber, diameter 30 mm, accessory to irrigator	ea	1
9.	Tube, glass, large and small, accessory to irrigator	ea	1
10.	Pinch cock, accessory to irrigator	ea	1
11.	Spoon, large	ea	1
12.	Agglutinoscope, 6 power	set	1
13.	Liquid measurer, 1000 cc	ea	1
14.	Test tube, diameter 14 mm	ea	70
15.	Test tube, diameter 12 mm	ea	250
16.	Net, copper, with asbestos	ea	1
17.	Needle, phlebotomic, with rubber tube	ea	150
18.	Syringe, 10 cc	ea	1
19.	Syringe, 5 cc	ea	2
20.	Needle, for 5cc syringe	ea	10



21.	Dishes, watch, diameter 60 mm, including case	ea	3
22.	Ring stand	ea	1
23.	Flask, Florence, 250 cc	ea	2
24.	Flask, triangular, 500 cc	ea	2
25.	Flask, triangular, 250 cc	ea	5
26.	Flask, 1000 cc	ea	1
27.	Metal container, test tube stands	set	2
28.	Boil sterilizer and constant temperature tub-	set	1
29.	Dishes, diameter 90 mm, 75 mm, 60 mm, with lids	set	3
30.	Funnel, glass, diameter 60 mm	ea	2
31.	Beakers, 150 cc, 100 cc, 50 cc	set	6
32.	Kerosene container	ea	1
33.	Kerosene	liter	4

Chest No. 4 - Weight 98 pounds

1.	Kit, dissecting, small	ea	1
2.	Wrench	ea	1
3.	Kit, animal testing	ea	1
4.	Mortar, hard glass, large	ea	1
5.	Boots, rubber	pr	1
6.	Rat cages, large, small	ea	1
7.	Marmot cages, large, small	ea	1
8.	Grind stone, blue	ea	1
9.	Table, dissecting, with tape	set	1
10.	Gloves, rubber, thick	pr	2
11.	Apron, rubber	ea	2
12.	Cage, for test animal, collapsible	set	1
13.	Pipette sterilizer	ea	2

Chest No. 5 - Weight 96 pounds

1.	Cage, metal, round shape, large and small	ea	1
2.	Steam sterilizer and distillation apparatus	set	1
3.	Thermometer, 200 , 120 , 100	ea	1
4.	Funnel, heating	ea	1
5.	Tripod	ea	1
6.	Furnace, for steam sterilizer	ea	1
7.	Can, containing culture base	ea	1

Chest No. 6 - Weight 101 pounds

1.	Hair shears, small	ea	10
2.	Hemocytometer	set	1
3.	Hemoglobinometer	set	1
4.	Thermometer	ea	1
5.	Net, copper	sheet	1
6.	Furnace, for dry heating sterilizer	set	1



7. Furnace, kerosene	set	1
8. Kerosene container	ea	1
9. Kerosene	liter	4.5
10. Cage, metal, square, large and small	ea	1
11. Sterilizer, dry heating	set	1
12. Pan, pharmaceutical	ea	1
13. Test tube, 14 mm diameter	ea	150

Chest No. 7 - Weight 93 pounds

1. Gown, operating	ea	8
2. Hood, examining	ea	10
3. Syringe, 10 cc	ea	1
4. Tube, graduated, 1000 cc	ea	2
5. Flask, 250 cc	ea	2
6. Funnel, glass, diameter 120 mm	ea	2
7. Syringe, 50 cc	ea	4
8. Needle, for 50 cc syringe	ea	20
9. Needle, for 10 cc syringe	ea	40
10. Syringe, 1 cc	ea	4
11. Syringe, 1 cc, with asbestos washer and joint ring	ea	19
12. Needle, for 1 cc syringe	ea	40
13. Gram balance, 500 gm	set	1
14. Camera, with accessories	ea	1
15. Masks	ea	100

Chest No. 8 - Weight 65 pounds

1. Bucket, canvas	ea	3
2. Sprayer, semi-automatic, with accessories	ea	3
3. Watering pots	ea	2
4. Sprayer, small	ea	1
5. Basin, enamelled, large, medium, small	ea	1
6. Brush, with handle	ea	3
7. Ladle, metal	ea	3

Chest No. 9 - Weight 72 pounds

1. Soap case	ea	1
2. Gentian violet	gm	25
3. Safranin	gm	25
4. Tablets, salt, each tablet 0.58 gm	ea	600
5. Sudan IV	gm	25
6. Beef extract	gm	50
7. Paraformal	gm	25
8. Phenolphthalein	gm	25
9. Fuchsin	gm	25



10.	Fructose	gm	50
11.	Peptone	gm	100
12.	Maltose	gm	50
13.	Methylene blue	gm	25
14.	Lactose	gm	50
15.	Iodine	ea	10
16.	Scap	piece	5
17.	Holder, for drying	ea	10
18.	Vat, developing	ea	3
19.	Developer, film	bt1	25
20.	Acid hypo	gm	1000
21.	Gelatin	gm	150
22.	Tree saws, bamboo	ea	3
23.	Ether	gm	2000
24.	Hydrochloric acid	gm	500
25.	Sodium hydroxide	gm	500
26.	Xylol	gm	500
27.	Cruciate	gm	500
28.	Sodium chloride	gm	1000
29.	Chloroform	gm	500
30.	Glycerin	gm	500
31.	Sodium carbonate	gm	500
32.	Formalin	gm	2000
33.	Powder, agar-agar	gm	500
34.	Glucose	gm	1000
35.	Benzol	gm	500
36.	Methyl alcohol	gm	1000

Chest No. 10 - Weight 71 pounds

1.	Test tubes, diameter 16 mm	ea	400
1.	Test tubes, diameter 12 mm	ea	800
2.	Test tube holders, large	ea	5
	small	ea	10
3.	Labels, large, medium, small	ea	50
4.	Plugs, rubber, No. 3, 4, 5, 6	ea	12
5.	Band, rubber	ea	1
6.	Slide, microscope	ea	300
7.	Pencil, glass, blue and red	ea	10
8.	Glass beads	gm	500
9.	Tags, paper	sheet	200
10.	Lid, glass,	ea	500
11.	Corks, No. 3, 4, 5, 6	ea	12
12.	Finger stalls, large, medium and small	ea	20
13.	Paper, sulphuric acid	sheet	10
14.	Filter paper	sheet	20
15.	Alcohol	gm	6000



Chest No. 11 - Weight 103 pounds

1.	Paraffin, solid	gm	1000
2.	Powder, zinc	gm	25
3.	Eosin	gm	25
4.	Eosin extract	gm	25
5.	Potassium ferrocyanide	gm	25
6.	Ferric perchloride	gm	25
7.	Potassium hydroxide	gm	50
8.	Potassium permanganate	gm	25
9.	Starch, soluble	gm	100
10.	Carmine	gm	25
11.	Citric acid	gm	25
12.	Sodium citrate	gm	250
13.	Chromic acid	gm	25
14.	Zinc chloride	gm	25
15.	Sodium acetate	gm	25
16.	Oxalic acid	gm	25
17.	Uranium nitrate	gm	25
18.	Silver nitrate	gm	25
19.	Sulfosalicylic acid	gm	25
20.	Tannic acid	gm	25
21.	Canada Balsam, neutralized	gm	25
22.	Diphenylamine	gm	25
23.	Picric acid	gm	25
24.	Pyramicon	gm	25
25.	Hematoxylin	gm	25
26.	Benzidine	gm	25
27.	Iodine	gm	25
28.	Potassium iodide	gm	25
29.	Ferric sulphate	gm	25
30.	Acetone	gm	500
31.	Aniline oil	gm	500
32.	Ammonia alum	gm	500
33.	Solution, hydrogen peroxide	gm	500
34.	Hydrochloric acid, diluted	gm	500
35.	Chrome sulphate	gm	500
36.	Acetic acid	gm	500
37.	Corrosive sublimate	gm	500
38.	Nitric acid	gm	500
39.	Lithium carbonate	gm	500
40.	Potassium bichromate	gm	500
41.	Fuming hydrochloric acid	gm	500
42.	Acetic acid, glacial	gm	500
43.	Alum	gm	500
44.	Alcohol, dehydrated	gm	2500
45.	Sodium carbonate, dehydrated	gm	500
46.	Sulphuric acid	gm	500
47.	Sodium sulphate	gm	500
48.	Copper sulphate	gm	500
49.	Fluid phenol	gm	500



Chest No. 12 - Weight 103 pounds

1. Cigaretograph machine	set	1
2. Camera, with accessories	ea	1
3. Tripod	ea	1
4. Lamp, alcohol, metal, round shape	ea	2
5. Flashlight	ea	3
6. Gloves, rubber, thin	pr	7
7. Funnel stand	ea	1
8. Cells, for flashlight	ea	3
9. Lantern	ea	3
10. Kit, physical examination	ea	1
11. Match	ea	5
12. Candle	ea	30

Chest No. 13 - Weight 130 pounds

1. Microscope	ea	1
2. Celloidin, 100 cc bottle	ea	3
3. Celloidin, 50 cc bottle	ea	12
4. Freezer, microtome ether	set	1
5. Knives, microtomic	ea	2
6. Strop, leather, for microtomic knives	ea	1
7. Accessories for tissue specimens	set	1
8. Microtome, freezing	set	1
9. Microtome	set	1

Chest No. 14 - Weight 103 pounds

1. Tube, sedimentation test, graduated	ea	10
2. Specimen holder	ea	7
3. Microscope	ea	1
4. Paraffin dissolving machine, electric	ea	1
5. Accessories for paraffin dissolving machine	set	1
6. Microscopic camera	ea	1
7. Centrifuge machine, hand-working, with 4 tubes	ea	1

Chest No. 15 - Weight 103 pounds

1. Colorimeter	ea	1
2. Minute clock	ea	1
3. Pipettes, 100 cc, Haul shape	ea	2
4. Pipettes, 50 cc, Haul shape	ea	2
5. Pipettes, 25 cc, Haul shape	ea	2
6. Water and urine examiner	ea	1
7. Machine, meat mincing	ea	1
8. Machine, test animal weighing, automatic	ea	1



9. Specimen holder	ea	8
10. Kit, dissecting	ea	1

Chest No. 16 - Weight 118 pounds

1. Constant temperature bath, (either electric or kerosene)	ea	1
2. Test tube stand, 36 tube capacity	ea	5

Chest No. 17 - Weight 162 pounds

1. Incubator, kerosene type	ea	1
2. Test tube stand, 144 tube capacity	ea	3